

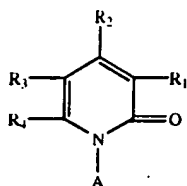
- 5-Methyl-1-(1'-naphthyl)-2-(1H) pyridone  
 3-Methyl-1-phenyl-2-(1H) pyridone  
 6-Methyl-1-phenyl-2-(1H) pyridone  
 5 3,6-Dimethyl-1-phenyl-2-(1H) pyridone  
 5-Methyl-1-(2'-thienyl)-2-(1H) pyridone  
 1-(2'-Furyl)-5-methyl-2-(1H) pyridone  
 5-Methyl-1-(5'-quinolyl)-2-(1H) pyridone  
 10 5-Methyl-1-(4'-pyridyl)-2-(1H) pyridone  
 5-Methyl-1-(3'-pyridyl)-2-(1H) pyridone  
 5-Methyl-1-(2'-pyridyl)-2-(1H) pyridone  
 5-Methyl-1-(2'-quinolyl)-2-(1H) pyridone  
 15 5-Methyl-1-(4'-quinolyl)-2-(1H) pyridone  
 5-Methyl-1-(2'-thiazolyl)-2-(1H) pyridone  
 1-(2'-Imidazolyl)-5-methyl-2-(1H) pyridone  
 5-Ethyl-1-phenyl-2-(1H) pyridone  
 20 3-Ethyl-1-phenyl-2-(1H) pyridone  
 1-Phenyl-2-(1H) pyridone  
 1-(4'-Nitrophenyl)-2-(1H) pyridone  
 5-Methyl-3-phenyl-1-(2'-thienyl)-2-(1H) pyridone  
 25 5-Methyl-1-phenyl-3-(1H) pyridone  
 5-Methyl-1-(4'-methoxyphenyl)-3-(1H) pyridone  
 5-Methyl-1-p-tolyl-3-(1H) pyridone  
 1-(4'-Chlorophenyl)-5-methyl-3-(1H) pyridone  
 30 5-Methyl-1-(2'-naphthyl)-3-(1H) pyridone  
 4-Methyl-1-phenyl-3-(1H) pyridone  
 6-Methyl-1-phenyl-3-(1H) pyridone  
 5-Methyl-1-(2'-thienyl)-3-(1H) pyridone  
 35 1-(2'-Furyl)-5-methyl-3-(1H) pyridone  
 5-Methyl-1-(5'-quinolyl)-3-(1H) pyridone  
 5-Methyl-1-(3'-pyridyl)-3-(1H) pyridone  
 5-Methyl-1-(2'-pyridyl)-3-(1H) pyridone  
 40 5-Methyl-1-(2'-quinolyl)-3-(1H) pyridone  
 5-Ethyl-1-phenyl-3-(1H) pyridone  
 1-Phenyl-3-(1H) pyridone.

It will thus be seen that the objects set forth above,  
 45 among those elucidated in, or made apparent from, the  
 preceding description, are efficiently attained and, since  
 certain changes may be made in the above compositions and  
 methods without departing from the scope of the invention,  
 it is intended that all matter contained in the foregoing  
 50 disclosure shall be interpreted as illustrative only and not in  
 a limiting sense.

It is also to be understood that the following claims are  
 intended to cover all of the generic and specific features of  
 the invention herein described and all statements of the  
 55 scope of the invention which, as a matter of language, might  
 be said to fall therebetween.

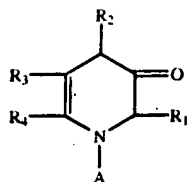
I claim:

1. A method of treating lymphomas, leukemias, and/or  
 60 leiomyomas in a laboratory animal or a human, comprising:  
 administering to said laboratory animal or said human an  
 effective dose of a composition including one or more  
 pharmaceutical substances selected from the group consist-  
 ing of N-substituted 2-(1H) pyridones, N-substituted 3-(1)  
 65 pyridones, and pharmaceutically acceptable salts thereof,  
 wherein said 2-(1H) pyridones have the following general  
 structural formula:



where: R1 is selected from the group consisting of (1) an alkyl group, with R3 hydrogen, and (2) hydrogen, with R3 consisting of an alkyl group; A is an aryl group; and R2 and R4 are hydrogen;

and wherein said 3-(1H) pyridones have the following general structural formula:



where: R2 is selected from the group consisting of (1) an alkyl group, with R3 hydrogen, and (2) hydrogen, with R3 consisting of an alkyl group; A is an aryl group; and R1 and R4 are hydrogen.

2. A method, as defined in claim 1, wherein: said composition is administered orally or parenterally to said laboratory animal at a rate of from about 250 to about 750 mg/kg of body weight per day.

3. A method, as defined in claim 1, wherein: said composition is administered orally or parenterally to a human at a rate of from about 20 to about 60 mg/kg of body weight per day.

4. A method of treating lymphomas, leukemias, and/or leiomyomas in a laboratory animal or a human, comprising: administering to said laboratory animal or said human an

5 said N-substituted 2-(1H) pyridones and said N-substituted 3-(1H) pyridones being selected from the group consisting of: 5-methyl-1-phenyl-2-(1H) pyridone, 5-Methyl-1-(3-nitrophenyl-2)-(1H) pyridone, 5-Methyl-1-(4'-methoxyphenyl)-2-(1H) pyridone, 5-Methyl-1-p-tolyl-2-(1H) pyridone, 5-Methyl-1-(3'-trifluoromethylphenyl)-2-(1H) pyridone, 1-(4°Chlorophenyl)-5-methyl-2-(1H) pyridone, 5-Methyl-1-(2'-naphthyl)-2-(1H) pyridone, 5-Methyl-1-(1'-naphthyl)-2-(1H) pyridone, 3-Methyl-1-phenyl-2-(1H) pyridone, 6-Methyl-1-phenyl-2-(1H) pyridone, 3,6-Dimethyl-1-phenyl-2-(1H) pyridone, 5-Methyl-1-(2'thieryl)-2-(1H) pyridone, 1-(2'-Furyl)-5-methyl-2-(1H) pyridone, 5-Methyl-1-(5'-quinolyl)-2-(1H) pyridone, 5-Methyl-1-(4'-pyridyl)-2-(1H) pyridone, 5-Methyl-1-(3'-pyridyl)-2-(1H) pyridone, 5-Methyl-1-(2'-pyridyl)-2-(1H) pyridone, 5-Methyl-1-(2'-quinolyl)-2-(1H) pyridone, 5-Methyl-1-(4'-quinolyl)-2-(1H) pyridone, 5-Methyl-1-(2'-thiazolyl)-2-(1H) pyridone, 1-(2'-imidazolyl)-5-methyl-2-(1H) pyridone, 5-Ethyl-1-phenyl-2-(1H) pyridone, 3-Ethyl-1-phenyl-2-(1H) pyridone, 1-Phenyl-2-(1H) pyridone, 1-(4'-Nitrophenyl)-2-(1H) pyridone, 5-Methyl-3-phenyl-1-(2'-thienyl)-2-(1H) pyridone, 5-Methyl-1-phenyl-3-(1H) pyridone, 5-Methyl-1-(4'-methoxyphenyl)-3-(1H) pyridone, 5-Methyl-1-p-tolyl-3-(1H) pyridone, 1-(4'-Chlorophenyl)-5-methyl-3-(1H) pyridone, 5-Methyl-1-(2'-naphthyl)-3-(1H) pyridone, 4-Methyl-1-phenyl-3-(1H) pyridone, 6-Methyl-1-phenyl-3-(1H) pyridone, 5-Methyl-1-(2'-thienyl)-3-(1H) pyridone, 1-(2'-Furyl)-5-methyl-3-(1H) pyridone, 5-Methyl-1-(5'-quinolyl)-3-(1H) pyridone, 5-Methyl-1-(3'-pyridyl)-3-(1H) pyridone, 5-Methyl-1-(2'-pyridyl)-3-(1H) pyridone, 5-Methyl-1-(2'-quinolyl)-3-(1H) pyridone, 5-Ethyl-1-phenyl-3-(1H) pyridone, and 1-Phenyl-3-(1H) pyridone.

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